

IN THE CLAIMS:

Please amend the claims as indicated below.

1 (Previously Presented) A method for communicating in a time-domain wavelength interleaved network having a hub node, comprising:

transmitting substantially all communications through said hub node without changing a wavelength of said communications at said hub node.

2 (Original) The method of claim 1, further comprising the step of synchronizing a transmission and reception of a message such that a message sent in a time-slot k by a node N_i is received by a node N_j in said time-slot k .

3 (Original) The method of claim 1, wherein said synchronizing step is performed by said hub node.

4 (Original) The method of claim 1, wherein said hub node imposes a timing reference

5 (Original) The method of claim 1, wherein said hub node recovers from a link failure by shifting transmission times of nodes separated from said hub node by said failed link.

6 (Previously Presented) A method for communicating performed by an interior node in a time-domain wavelength interleaved network having a hub node, comprising:

sending substantially all communications received from said hub node having a wavelength indicating said communication is destined for another node on all branches outward from said hub node without changing a wavelength of said communication at said hub node

7 (Original) The method of claim 6, further comprising the step of synchronizing a transmission and reception of a message such that a message sent in a time-slot k by a node N_i is received by a node N_j in said time-slot k .

8 (Original) The method of claim 7, wherein said synchronizing step is performed by said hub node.

9 (Previously Presented) A node in a time-domain wavelength interleaved network having a hub node, comprising:

a tunable laser directed toward said hub node; and

a wavelength dropper for dropping signals having a wavelength associated with said node only from a fiber coming from said hub node, wherein substantially all communications in said time-domain wavelength interleaved network are transmitted through said hub node without changing a wavelength of said communications at said hub node.

10 (Original) The node of claim 9, where a transmission and reception of a message are synchronized such that a message sent in a time-slot k by a node N_i is received by a node N_j in said time-slot k .

11 (Original) The node of claim 9, wherein said hub node imposes a timing reference.

12 (Original) The node of claim 9, wherein said hub node performs a time-slot scheduling without regard to a delay in said time-domain wavelength interleaved network

13 (Original) The node of claim 9, wherein said hub node recovers from a link failure by shifting transmission times of nodes separated from said hub node by said failed link.

14 (Previously Presented) A time-domain wavelength interleaved network, comprising:
a plurality of nodes, including a hub node, wherein substantially all communications in said time-domain wavelength interleaved network pass through said hub node without changing a wavelength of said communications at said hub node.

15. (Original) The time-domain wavelength interleaved network of claim 14, where a transmission and reception of a message are synchronized such that a message sent in a time-slot k by a node N_i is received by a node N_j in said time-slot k
16. (Original) The time-domain wavelength interleaved network of claim 14, wherein said hub node imposes a timing reference
17. (Original) The time-domain wavelength interleaved network of claim 14, wherein said hub node performs a time-slot scheduling without regard to a delay in said time-domain wavelength interleaved network.
18. (Original) The time-domain wavelength interleaved network of claim 14, wherein said hub node recovers from a link failure by shifting transmission times of nodes separated from said hub node by said failed link.
19. (Original) The time-domain wavelength interleaved network of claim 14, further comprising a plurality of said nodes interconnected in a tree configuration.
20. (Original) The time-domain wavelength interleaved network of claim 14, further comprising a plurality of trees of nodes, each of said trees having a hub node, each of said hub nodes interconnected in a ring configuration.